## **CLAIMS**

Pest detection apparatus comprising;
 an access portion;

5 an entrapment portion accessible via the access portion;

detection means for detecting the presence of a pest once in the region of the entrapment portion;

means for indicating detection of a pest by the 10 detection means; and,

inspection means arranged to allow for viewing of a trapped pest.

- An apparatus as claimed in Claim 1, wherein the access
  portion is arranged to guide a pest towards the entrapment portion.
- 3. An apparatus according to Claim 1 or 2, including a surface portion disposed between the access portion and the entrapment portion.
  - 4. An apparatus as claimed in Claim 3, wherein a region of the surface portion is arranged to encourage a pest to traverse thereover.

- 5. An apparatus as claimed in Claim 3, wherein a region of the surface portion is arranged to discourage a pest from traversing thereover.
- 30 6. An apparatus according to any one of preceding claims, wherein the access portion leads to a tunnel member, such that at least one region of the tunnel member has a relatively roughened texture and at least one further section of the tunnel member has a relatively smooth texture.

7. An apparatus according to any one of the preceding claims, wherein the entrapment portion comprises an adhesive material provided as an adhesive coated surface.

- 5 8. An apparatus according to any one of the preceding claims, wherein the adhesive material is removably and replaceably positioned within the access portion.
- 9. An apparatus according to Claim 8, wherein the adhesive 10 material is provided as an adhesive surface on a removable card.
  - 10. An apparatus according to any one of the preceding claims, wherein the adhesive material is a glue.

- 11. An apparatus according to any one of claims 1 to 6, wherein the entrapment portion comprises a mechanical trap.
- 12. An apparatus according to any one of the preceding 20 claims, wherein the detection means comprises at least one emitter/detector.
- 13. An apparatus according to Claim 11, wherein the at least one emitter/detector pair is arranged such that a 25 radiation beam extending between each emitter/detector is broken by a pest.
- 14. An apparatus as claimed in Claim 12 or claim 13, wherein the at least one emitter/detector pair is mounted 30 relative to the entrapment portion such that a pest is detected once the pest has passed over an edge of the entrapment portion.
- 15. An apparatus as claimed in Claim 13 or 14, wherein the radiation beam is an infrared beam.

16. An apparatus according to any one of the preceding claims, wherein the means for indicating the detection of a pest by the detection means is arranged for generation of an audible and/or visible signal.

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17. An apparatus according to any one of Claims 1 to 15, wherein the means for indicating the detection of a pest by the detection means is arranged to transmit a data signal to a remote location.

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- 18. An apparatus according to any one of the preceding claims, wherein the inspection means is transparent.
- 19. An apparatus as claimed in any one of claims 1 to 17, 15 wherein the inspection means comprises a movable portion of the pest detection apparatus.
- 20. Apparatus as claimed in any one or more of the preceding claims wherein the detection means and the means20 for indicating detection are provided in separate housings.
  - 21. Apparatus as claimed in Claim 20 wherein an electrical connection between the two housings is achieved by means of a connecting wire.

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22. Apparatus as claimed in Claim 20 or 21 wherein the on-board power supply for the apparatus is located within the housing of the said means for indicating detection of a pest.

- 23. Apparatus as claimed in Claim 20, 21 or 22, wherein control electronics are provided within the housing for the means for indicating detection of a pest.
- 35 24. Apparatus as claimed in any one of Claims 20 to 23,

wherein antenna means is provided mounted to the housing for the means for indicating detection of a pest.

- 25. Apparatus as claimed in any one of Claims 20 to 24,5 wherein the housing for the means for indicating detection is arranged to be wall mounted.
- 26. Apparatus as claimed in any one or more of the preceding claims, and including a removable locating frame 10 member for engaging the entrapment portion within the apparatus.
- 27. Apparatus as claimed in Claim 26, wherein the locating frame member is arranged to secure the entrapment portion15 within the apparatus.
  - 28. Apparatus as claimed in Claim 26 or 27, wherein the locating frame includes a plurality of downwardly depending leg members arranged to engage the entrapment portion.

- 29. Apparatus as claimed in Claim 26, 27 or 28 wherein said leg members are arranged to guide a pest to the adhesive material on the entrapment portion.
- 25 30. Apparatus as claimed in any one or more of Claims 26 to 20, wherein the locating frame includes openings to enhance the visibility of the entrapment portion.
- 31. Apparatus as claimed in Claim 30, wherein the locating frame comprises a lattice frame member.
  - 32. Apparatus as claimed in any one or more of Claims 26 to 31, wherein the locating frame member is arranged to provide for accurate location of the entrapment portion relative to the means for detecting presence for a pest.

33. Apparatus as claimed in any one or more of the preceding claims wherein the entrapment portion comprises a flat foldable member in which a first portion is foldable relative to a second portion.

- 34. Apparatus as claimed in Claim 33, wherein the adhesive material is provided on a first portion, and a window is formed within the second portion such that when the second portion is folded onto the first portion, the adhesive material is exposed through the said window.
  - 35. Apparatus as claimed in Claim 34, wherein the portion of the flat foldable member defining said window is provided with a surface arranged to prevent escape of the pest once it has encountered the adhesive material.
  - 36. Apparatus as claimed in Claim 33, 34 or 35, wherein the flat foldable member comprises a card member.
- 20 37. An apparatus according to any one of the preceding claims wherein the apparatus comprises an enclosure structure having a tunnel portion forming at least the entrapment portion and a housing portion for housing electronic circuitry, and which is arranged such that a lid member covers at least the tunnel region when disposed in a closed position and exposes at least the tunnel portion when disposed in an open position.
- 38. A pest entrapment member for use within pest monitoring apparatus comprising a flat member having first and second portions separated by a fold line allowing for folding of the second portion onto the first portion, wherein the first portion is provided with an adhesive material, and the second portion is provided with a window such that, upon folding of the second portion onto the first portion, the

adhesive material is exposed via the said window.

39. A pest entrapment member as claimed in Claim 38, wherein the surface of the portion of the member defining 5 the said window is arranged to inhibit escape of a pest from the adhesive material.

40. A pest entrapment member as claimed in Claim 38 or 39, wherein the entrapment member comprises a card member.

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- 41. Pest detection apparatus substantially as hereinbefore described with reference to, and as illustrated in Figs. 1-3, Fig. 4 and Figs. 5 and 6 of the accompanying drawings.
- 15 42. A pest entrapment member substantially as hereinbefore described with reference to the accompanying drawings.

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